## Icing Branch (RTI)

Conducts research and development (R&D) programs to update and advance the technology for safe and efficient aircraft operation in atmospheric icing conditions. Develops/sponsors new approaches to ice protection in response to the constantly changing needs of all classes of modern aircraft. Develops analytical methods for predicting ice growth, the aerodynamic penalties caused by ice, and ice protection system performance. Performs icing R&D testing in the Icing Research Tunnel, Icing Research Aircraft (natural icing conditions and dry-air testing), and other wind tunnels. Develops new icing test techniques, upgrades and expands the capabilities of NASA's icing test facilities. Develops advanced ice protection and detection technologies to sense and measure ice growth. Develops educational materials on in- flight aircraft icing for the aerospace community.